



De novo variants

This communication aid has been produced for clinicians to help support and guide conversations about de novo variants with their patients.

What are variants?

Variants are changes in DNA that make us unique. Most **genomic changes** are harmless, some cause genetic conditions. Genomic changes can either be inherited from parents, or they can occur 'de novo'.

What is a de novo variant?

'De novo' is a Latin term that means 'new'. In genomics, de novo means a genomic change that has happened for the first time in a person and was not inherited from either parent. The change occurred during the process of forming a parent's egg or sperm, or just after conception (when the sperm fertilises the egg). As the fertilised egg begins to divide and grow, this genetic change is copied into more cells in the body.

A de novo change can affect all or some of the cells in the body. If only some cells in the body are affected, this is called mosaicism. Visual communication aids around mosaicism are available via the QR code (right).



Can a de novo variant happen again in another child?

When a couple has a child with a de novo genomic change, the chance of having a second child with the same genomic change is usually low. It is important to speak with clinical genetics for personalised advice in this case.

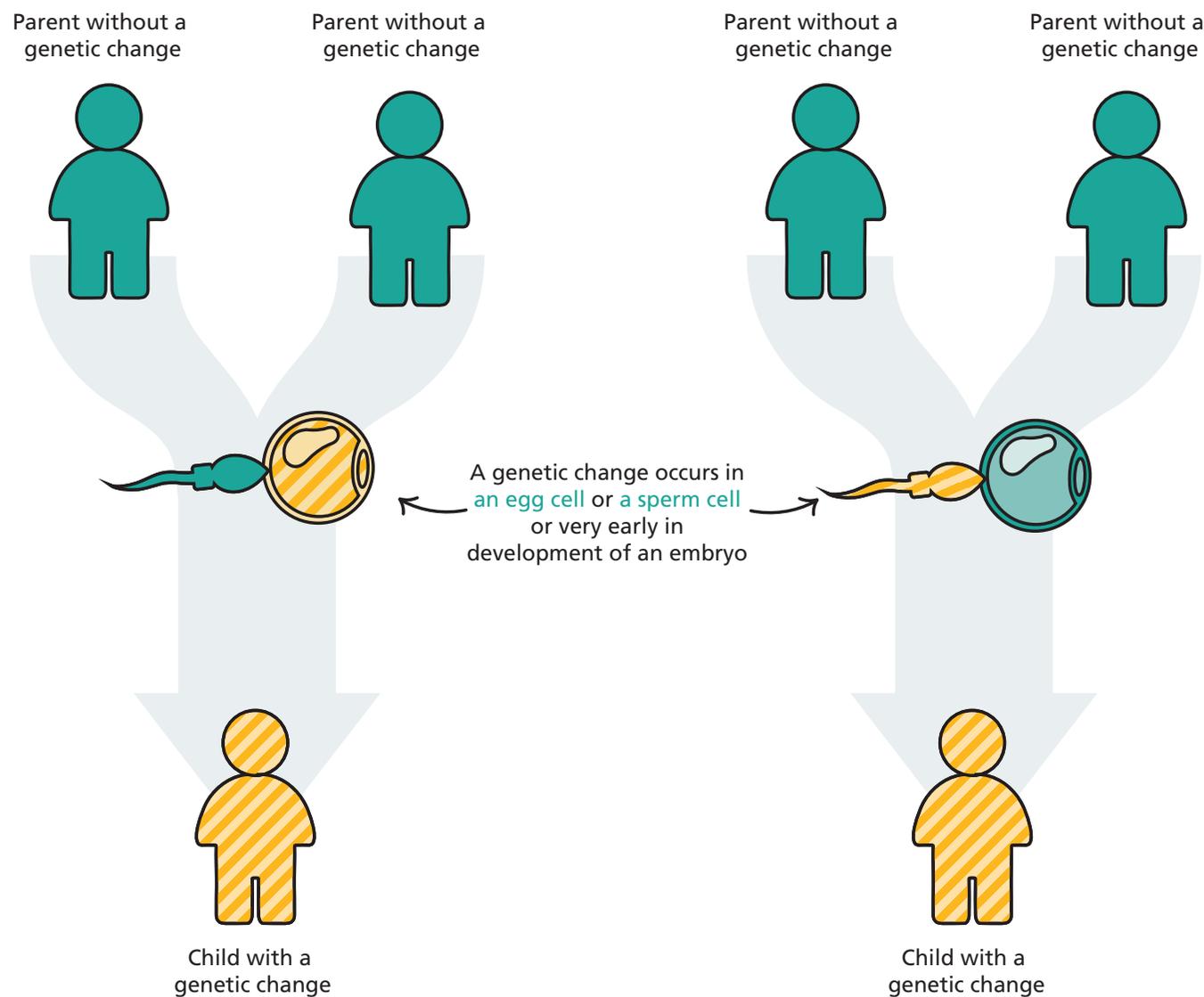
Key terms

Genomic change: Changes in a gene or chromosome used to be referred to as 'mutations'. Now, they are more commonly called changes, alterations or variants.



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